

(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 24 July 2003 (24.07.2003)

(51) International Patent Classification7:

PCT

(10) International Publication Number WO 03/059901 A1

(21) International Application Number: PCT/NL02/00876

(22) International Filing Date: 9 December 2002 (09.12.2002)

(25) Filing Language:

English

C07D 319/06

(26) Publication Language:

English

(30) Priority Data: 01000794.6 27 December 2001 (27.12.2001) E

(71) Applicant (for all designated States except US): DSM N.V. [NL/NL]; Het Overloon 1, NL-6411 TE Heerlen (NL).

(72) Inventor; and

(75) Inventor/Applicant (for US only): HOF, Robert, Patrick [NL/NL]; Generaal Ritchiestraat 21, NL-5981 GD PAnningen (NL).

(74) Agent: JACOBS, Monique, Sophie, Nicole; DSM Patents & Trademarks, P.O. Box 9, NL-6160 MA Geleen (NL).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PROCESS FOR THE PREPARATION OF 2-(6-SUBSTITUTED-1,3-DIOXANE-4-YL) ACETIC ACID DERIVATES

(57) Abstract: The invention relates to a process for the conversion of group X in a 2-6(-substituted)-1,3-dioxane-4yl) acetic acid derivative according to formula 2 into a group OY in the presence of a phase transfer catalyst and an oxylating agent, by using as a phase transfer catalyst a quarternary phosphonium ion and by using as an oxylating agent an OY ion. X stands for a halogen and R¹ and R² and R³ are each independently a C1-4 alkygroup or R¹ and R² together with the C-atom to which they are bound form a 5-or 6-membered cycloalkyl; Y stands for R^A-CO- or for R^B-SO₂- with R^A, R^B are chosen from the group of alkyl or aryl with 1-12 C-atoms.

70 03/059901